Targeting the Mechanism of Hypertrophic Cardiomyopathy

Session: Progress in Designing Hypertrophic Cardiomyopathy Trials

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Disclosure & Disclaimer

Dr. Semigran is a full-time employee of Edgewise Therapeutics

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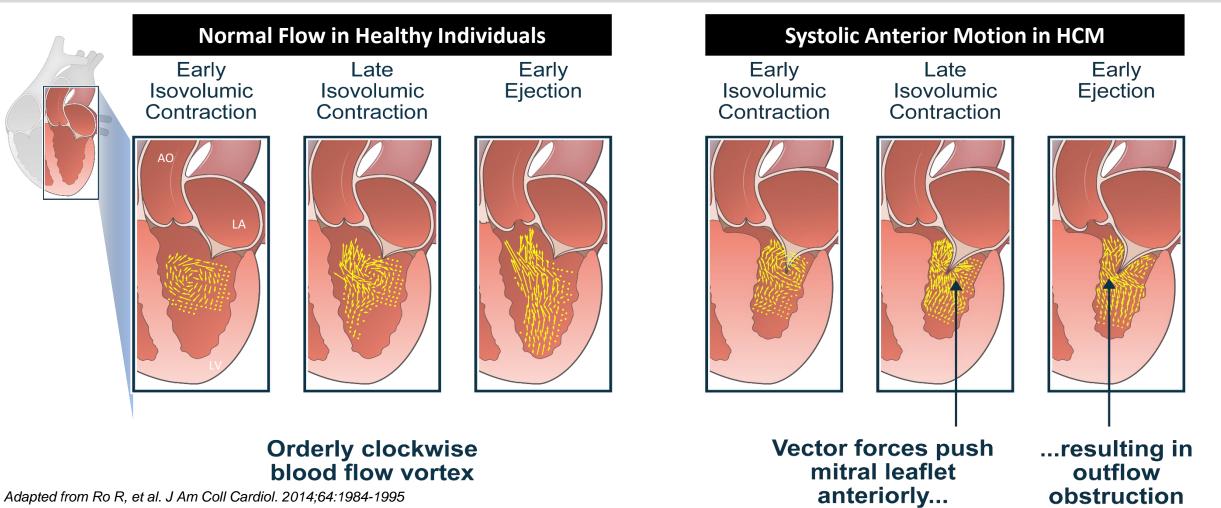
EDG-7500 is an investigational agent and is not approved in any territory

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20th Global Cardio Vascular Clinical Trialists Forum Advancing EDG-7500, a First-In-Class Sarcomere Modulator for Hypertrophic Cardiomyopathy (HCM)

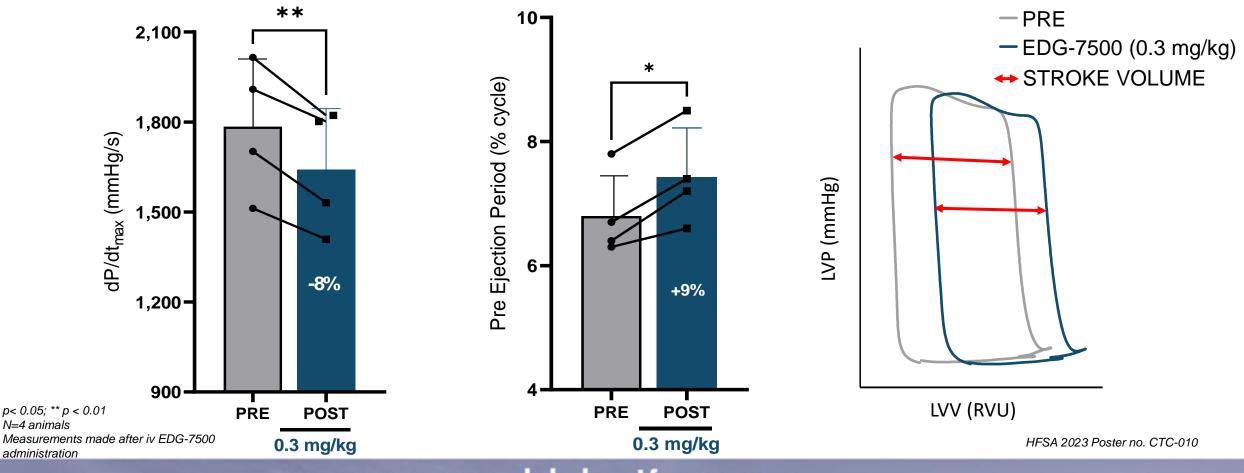
- Edgewise Therapeutics' robust discovery platform is yielding novel compounds targeting important unmet needs of patients suffering from disorders of cardiac and skeletal muscle.
- EDG-7500 is first-in-class oral, selective, cardiac sarcomere modulator for HCM designed to slow myocardial contraction velocity and improve impaired relaxation, hallmarks of patients with either obstructive or nonobstructive pathophysiology.
- Preclinical data of EDG-7500 support beneficial activity in models of both obstructive and non-obstructive HCM with minimal changes in overall LV systolic performance.

LVOT Obstruction Results from Abnormalities in Early Systolic Blood Flow & Mitral Structure



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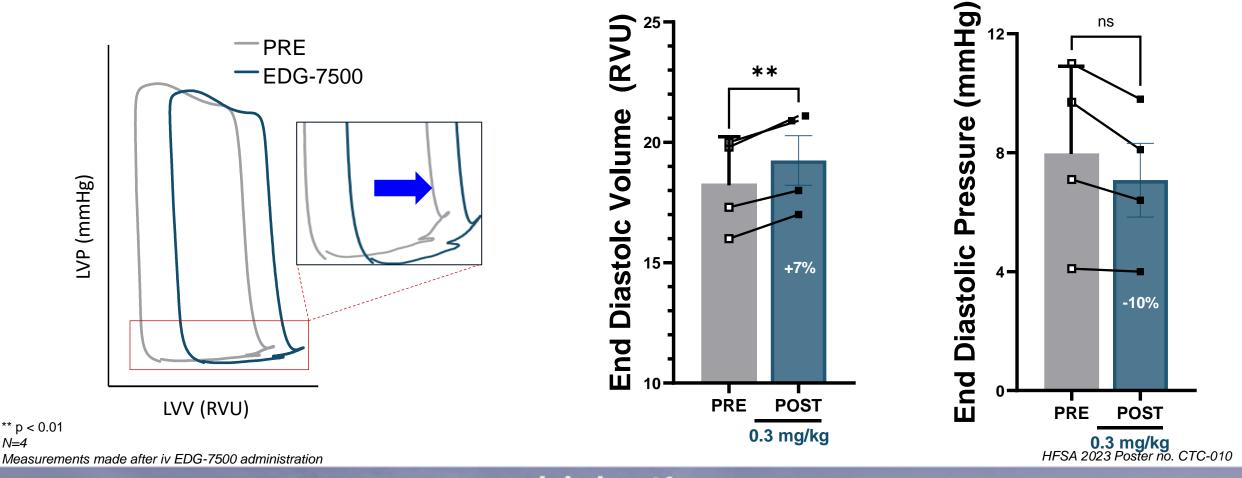
Systolic Function: EDG-7500 Reduces +dP/dt_{max} during Isovolumic Contraction and Prolongs Pre Ejection Period in Healthy Canines; Stroke Volume is Preserved



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Diastolic Function: EDG-7500 Increases Left Ventricular Compliance in Healthy Canines

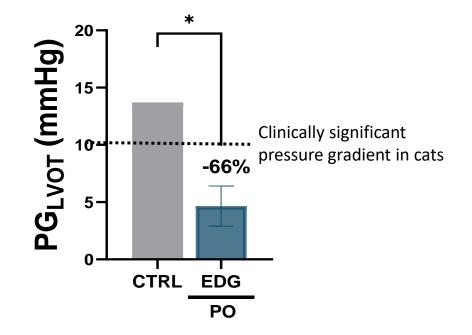


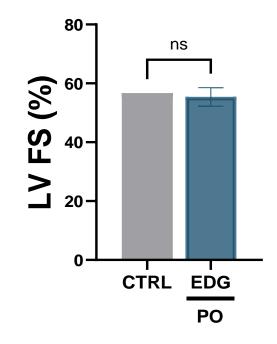
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N=4

EDG-7500 Relieves LVOT Gradient Without Changing Fractional Shortening in Cats with Genetic oHCM

A31P MyBP-C Mutation Cat Model of oHCM (n=6). Measurements made after single fixed dose oral EDG-7500 administration. Plasma EDG-7500 levels: 68-560 ng/mL.

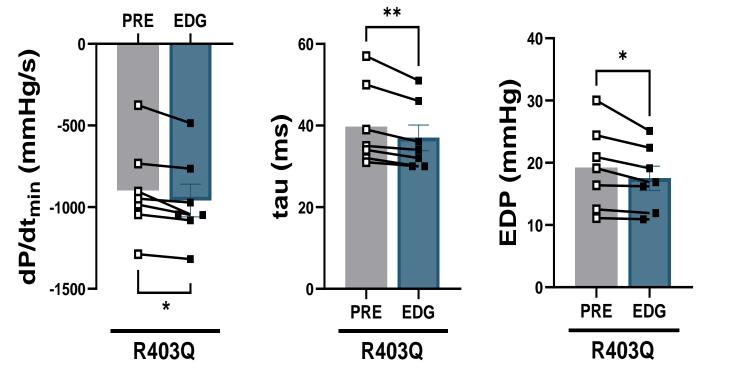


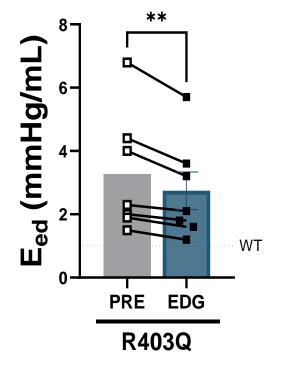


* p < 0.01 Kaplan J, et al. J Am Coll Cardiol. 2023;81(8 Supplement):349

Abnormal LV Relaxation, Filling Pressure, & Diastolic Compliance Acutely Improve with EDG-7500

MYH7 R403Q Minipig Genetic Model of nHCM (n=6)





* P < 0.05, ** P < 0.01 0.5 mg/kg EDG-7500 IV bolus

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delRio C et al.Circulation. 2023;148:A15612

Summary

- Knowledge of muscle biology and the pathophysiologic mechanisms of HCM has informed design
 of a small molecule that directly targets both early-systolic and diastolic myocardial function with
 modest effects on overall systolic performance as measured by ejection-phase indices.
- EDG-7500 has been shown to eliminate LVOT obstruction in a cat model of oHCM over a wide range of exposures without altering %FS.
- EDG-7500 efficacy has been observed in preclinical animal models of HCM.
- Single ascending dose human studies of the safety & tolerability of EDG-7500 have begun (NCT06011317).
- EDG-7500's novel mechanism of action supports investigating fixed-dose regimens for treatment of patients with HCM.

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